

Patent Abstracts of Japan

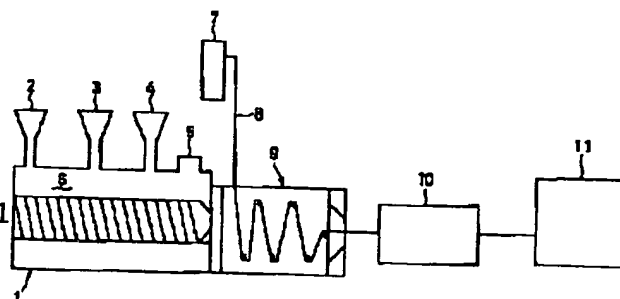
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TITLE : CRYSTALLINE THERMOPLASTIC
RESIN PILLAR REINFORCED WITH
FILAMENTS AND LEAFLET
INORGANIC FILLER



ABSTRACT : PURPOSE: To provide the pillar which can be used as a structural material of high impact strength, low sink deformation and low warpage deformation by allowing inorganic filaments equal length to the pillar and arranged in parallel with the lengthwise direction and a filler of a specific aspect ratio to distribute in the matrix of a crystalline resin.
CONSTITUTION: A crystalline thermoplastic resin is quantitatively fed from the first inlet 2 of the extruder 1, leaflet filler of more than 10 aspect ratio such as mica, from the second inlet 3 in an amount of 5 to 15wt.% based on the composite, then they are molten and kneaded, as they are sucked from bent 5, then continuously sent in the impregnation dice 9 at the down-stream end of the extrusion barrel 5. In the meantime, inorganic filaments such as glass fibers are fed from the tank 7 in an amount of 20 to 60wt.% based on the composite, impregnated with molten resin, passed through the cooling water bath 10 and cut by the cutter 11 to obtain the objective crystalline thermoplastic resin pillars which contain inorganic filaments which are arranged in parallel with the pillar direction in the same length as that of the pillars.

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- IC : C08J5/04 ;C08K3/00 ;C08K7/04 ;C08L77/00 ;C08L101/00
- TI : Crystalline thermoplastic resin pillar matter reinforced with long fibrous, etc. - has special inorganic fibre content and is aligned in longitudinal direction of pillar matter, having good mechanical strength, etc.
- AB : J06279615 In a crystalline thermoplastic resin pillar matter reinforce with long fibrous and platy inorganic fillers, the pillar matter consists of a complex in which inorganic long fibre and platy inorganic filler are dispersed in a crystalline thermoplastic resin matrix, the content of the inorganic fibre based on the complex is 20-60 wt%, almost all of the inorganic fibre is aligned in the longitudinal direction of the pillar matter and has substantially the same length as that of the pillar matter, the aspect ratio of the platy filler is more than 10, and the content of the platy filler based on the complex is 5-15 wt%.
- Pref crystalline thermoplastic resin is eg poly-alpha-olefin or polyester resin. Inorganic fibre is eg glass fibre or rock wool. Platy inorganic filler is eg mica, talc or glass flake.
 - USE/ADVANTAGE - The crystalline thermoplastic resin pillar matter reinforced with long fibrous and platy inorganic fillers. the pillar matter has good mechanical strengths as to eg impact strength and is suitable as structural material.(Dwg.0/2)

